

WHAT IS CLAIMED IS:

1. A motor defining an axial direction, the motor comprising:
 - a plurality of core pairs, each of the core pairs consisting of an inner
 - 5 core and an outer core, arranged next to each other along the axial direction
 - such that the inner cores are in contact with each other;
 - a coil wound around each of the core pairs; and
 - a case formed from a magnetic material that covers the coils wherein
 - the case is welded to at least the inner cores to form two independent
 - 10 magnetic circuits formed by the inner cores, the case and the outer cores.
2. A motor according to claim 1, wherein the case is welded to the
- outer cores.
3. A motor according to claim 1, wherein each of the inner cores
- 15 and each of the outer cores has teeth-like poles;
 - the teeth-like poles on the inner cores and the teeth-like poles on the
 - outer cores are alternately disposed to face a rotor magnet of a rotor that is
 - disposed inside the plurality of core pairs; and
 - 20 the case is commonly affixed to outer circumference sections of the
 - inner cores and outer cores that form the plurality of core pairs.
4. A motor according to claim 3, wherein the case is formed from a
- curled thin plate.
5. A motor according to claim 4, further comprising connection
- 25 terminals to supply current to the coils connected to the inner cores and the
- outer cores, wherein the case has an arc-shape to leave an opening for the
- connection terminals.

6. A motor according to claim 5, wherein the arc-shaped case has end sections, and the case and the inner cores are welded at welding spots at the end sections of the arc-shaped case and at a midpoint in the circumferential direction between the end sections of the arc-shaped case.
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